

Notice of Allowability

Application No.

10/614,391

Examiner

Chuck Huynh

Applicant(s)

MASSIE ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/10/2005.
2. ☒ The allowed claim(s) is/are 31-77.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Allowable Subject Matter

1. Claims 31-77 are allowed.

Regarding claims 31-77, there is no prior art that completely encompasses all of the claimed limitations.

Reference Frid et al. does disclose packet data communication within two different networks and a roaming mechanism enabling a mobile station to roam between a first data packet network utilizing a Mobile IP Method (MIM) and a second data packet network utilizing a Personal Digital Cellular Mobility Method (PMM) is disclosed. A foreign agent (FA) is introduced into the PMM network for enabling a mobile station associated with the MIM network and currently roaming within the PMM network to communicate packet data with an associated home agent (HA). A home agent (HA) is further introduced into the PMM network for enabling a mobile station associated with the PMM network and currently roaming within the MIM network to communicate packet data with an associated FA or Mobile IP Client Emulator (MICE) currently serving the roaming mobile station.

Regarding claim 31, Frid does not specifically disclose all the limitations of the claim, especially the claimed features of the primary wireless network parts:

c) determining whether the wireless device last used the primary or secondary wireless network; and

d) adding a radio frequency header to the query in accordance with the last used network as determined in said part c); and

e) transmitting the query to the wireless device in the network as determined in said part c); and

f) adding, after a predetermined number of transmission attempts to the primary network, a transmission header in accordance with a communication protocol used by at least one of the primary and secondary wireless network to which the query has not yet been transmitted.

Therefore, claim 31 is allowed over prior art.

Regarding claim 32, Frid does not specifically disclose all the combined limitations of the claim, especially the claimed features of:

retrieving a profile of the wireless device, the profile comprising data pertaining to at least the primary wireless network and the secondary wireless network with which the wireless device is communicable;

adding a radio frequency header to the query;

transmitting the query and at least a portion of the radio frequency header to the wireless device in the primary wireless network;

adding, after a predetermined number of transmission attempts, a second transmission header characteristic of second communication requirements associated

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with the secondary network to the query in accordance with a communication protocol used by the secondary wireless network.

Therefore, claim 32 is allowed over prior art, and depending claims 33-36 are allowed for the same reasons.

Regarding claim 37, Frid does not specifically disclose all the combined limitations of the claim, especially the claimed features of:

c) determining at least one of the primary and secondary wireless network with which the wireless device was last communicating;

d) adding a first transmission header to the query in accordance with network communication requirements as determined in said step c);

e) transmitting the query and at least a portion of the radio frequency header to the wireless device in the network as determined in said step c);

f) adding, after a predetermined number of transmission attempts, a second transmission header in accordance with a communication protocol used by at least one of the primary and secondary wireless networks to which the query has not yet been transmitted.

Therefore claim 37 is allowed over prior art.

Regarding claim 38, Frid does not specifically disclose all the combined limitations of the claim, especially the claimed features of:

retrieving a profile of the wireless device comprising data pertaining to at least the primary wireless network and the secondary wireless network with which the wireless device is communicable;

adding a radio frequency header to the query;

transmitting the query and at least a portion of the radio frequency header to the wireless device in the primary wireless network;

adding, after a predetermined number of transmission attempts, a second transmission header to the query in accordance with a communication protocol used by the secondary wireless network.

Therefore claim 38 is allowed over prior art, and depending claims 39-42 are allowed for the same reasons.

Regarding claim 43, Frid does not specifically disclose all the combined limitations of the claim, especially the claimed features of:

retrieving a profile of the wireless device comprising network data pertaining to at least the primary wireless network and the secondary wireless network with which the wireless device is communicable;

adding a first transmission header to the query;

transmitting the query and at least a portion of the first transmission header to the wireless device in the primary wireless network;

adding, after a predetermined number of transmission attempts, a second transmission header to the query in accordance with a communication protocol used by the secondary wireless network.

Therefore, claim 43 is allowed over the prior art, and depending claims 44-47 are allowed for the reasons.

Regarding claim 48, Frid does not specifically disclose all the combined limitations of the claim, especially the claimed features of:

a primary wireless network operatively connected to, and directly communicating with, said first communication device and receiving the query, said primary wireless network **determining responsive to the query whether the query is to be transmitted within said primary wireless network, and when the query is to be transmitted within said primary wireless network, formatting the query to be received substantially consistent with the first communication format routing the query to a device destination within said primary wireless network, and when the query is not to be transmitted within said primary wireless network, said primary wireless network formatting the query in accordance with a second communication format and routing the query to a network destination, optionally via the primary wireless communication; and**

a secondary wireless network operatively connected to, and directly communicating with, said second communication device and said primary wireless network, **said secondary wireless network receiving the query from said primary wireless network as the network destination when the query not to be transmitted**

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within said primary wireless network, optionally via secondary wireless communication and routing the query to said second communication device as the device destination responsive to said second communication format formatted by said primary wireless network.

Therefore claim 48 is allowed over prior art, and depending claims 49-50 are allowed for the same reason.

Regarding claim 51, Frid does not specifically disclose all the combined limitations of the claim, especially the claimed features of:

a primary wireless network operatively connected to, and directly communicating with, said first communication device and receiving the query, said primary wireless network determining responsive to the query whether the query is to be transmitted within said primary wireless network, and when the query is to be transmitted within said primary wireless network, formatting the query to be received substantially consistent with the first communication format, transmitting the query to a device destination within said primary wireless network, and when the query is not to be transmitted within said primary wireless network, said primary wireless network formatting the query in accordance with a second communication format and transmitting the query to a network destination, optionally via the primary wireless communication; and

a secondary wireless network operatively connected to, and directly communicating with, said second communication device and said primary wireless network, said secondary wireless network receiving the query from said primary

wireless network as the network destination when the query is not to be transmitted within said primary wireless network, optionally via secondary wireless communication and transmitting the query to said second communication device as the device destination responsive to said second communication format formatted by at least in part by said primary wireless network.

Therefore, claim 51 is allowed over prior art, and depending claims 52-53 are allowed for the same reason.

Regarding claim 54, Frid does not specifically disclose all the combined limitations of the claim, especially the claimed features of:

a primary wireless network operatively connected to, and directly communicating with, said first communication device and receiving the query, said primary wireless network determining responsive to the query whether the query is to be transmitted within said primary wireless network and outside said primary wireless network, and when the query is to be transmitted within said primary wireless network, formatting the query to be received in accordance with the first communication format, routing the query to a device destination within said primary wireless network via primary wireless communication, and when the query is to be transmitted outside said primary wireless network, optionally in addition to routing the query within said primary wireless network, said primary wireless network formatting the query in accordance with a second communication format and routing the query outside said primary wireless network.

Therefore claim 54 is allowed over the prior art, and depending claims 55-56 are allowed for the same reasons.

Regarding claim 57, Frid does not specifically disclose all the combined limitations of the claim, especially the claimed features of:

a primary wireless network operatively connected to, and directly communicating with, said first communication device and receiving the query, said primary wireless network determining responsive to the query whether the query is to be transmitted within said primary wireless network and outside said primary wireless network, and when the query is to be transmitted within said primary wireless network, formatting the query to be received in accordance with the first communication format, transmitting the query to a device destination within said primary wireless network via primary wireless communication, and when the query is to be transmitted outside said primary wireless network, optionally in addition to the transmitting the query within said primary wireless network, said primary wireless network formatting the query in accordance with a second communication format and transmitting the query outside said primary wireless network.

Therefore, claim 57 is allowed over the prior art, and depending claims 58-59 are allowed for the same reasons.

Regarding claim 60, Frid does not specifically disclose all the combined limitations of the claim, especially the claimed features of:

reading a profile of the wireless device comprising data pertaining to at least the primary wireless network and the secondary wireless network with which the wireless device is communicable;

adding a first transmission header to the query;

transmitting the query and at least a portion of the first transmission header to the wireless device in the primary wireless network;

adding, after a predetermined number of transmission attempts, a second transmission header to the query in accordance with a communication protocol used by the secondary wireless network; and

Therefore claim 60 is allowed over the prior art.

Regarding claim 61, Frid does not specifically disclose all the combined limitations of the claim, especially the claimed features of:

a request server retrieving a profile of the wireless device comprising data pertaining to at least the primary wireless network and the secondary wireless network with which the wireless device is communicable;

a routing server operatively communicable with said request server adding a radio frequency header to the query, transmitting the query to the wireless device in the primary wireless network;

a complementary network server for receiving the query, after a predetermined number of transmission attempts, from said routing server and adding a second

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transmission header to the query in accordance with a communication protocol used by the secondary wireless network; and

means for switching, operatively communicable with the primary and secondary wireless networks, receiving the query transmitted by said complementary network server, transmitting the query to the wireless device via the secondary wireless network, and transmitting the query results to said routing switch.

Therefore, claim 61 is allowed over the prior art.

Regarding claims 62-77, there are no prior art that completely encompasses all the particularly combined limitations of the claim in such manner. Therefore, claims 62-77 are similarly allowed over prior arts in.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuck Huynh whose telephone number is 571-272-7866. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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